

Anti-Cytochrome C/CYCS Antibody Picoband®

Catalog Number: PB9334

About CYCS

CYCS is also known as CYC, HCS or THC4. This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.

Overview

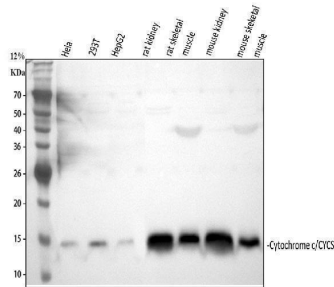
Product Name	Anti-Cytochrome C/CYCS Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cytochrome C/CYCS Antibody Picoband® catalog # PB9334. Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P99999

Technical Details

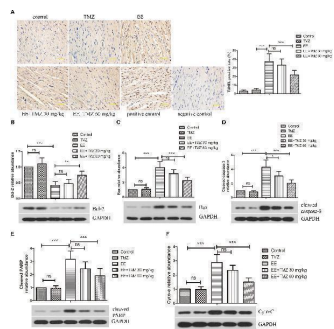
Immunogen	E.coli-derived human Cytochrome C recombinant protein (Position: G2-E105). Human Cytochrome C shares 91% amino acid (aa) sequence identity with both mouse and rat Cytochrome C.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.

Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Immunocytochemistry , 0.5-1ug/ml, Human, - Immunofluorescence, 2ug/ml, Human, Mouse, Rat, -

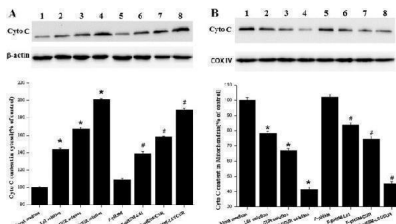
Anti-Cytochrome C/CYCS Antibody Picoband® (PB9334) Images



Western blot analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (PB9334). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: rat kidney tissue lysates, Lane 5: rat skeletal muscle tissue lysates, Lane 6: mouse kidney tissue lysates, Lane 7: mouse skeletal muscle tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cytochrome c/CYCS antigen affinity purified polyclonal antibody (PB9334) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cytochrome c/CYCS at approximately 14 kDa. The expected band size for Cytochrome c/CYCS is at 12 kDa.

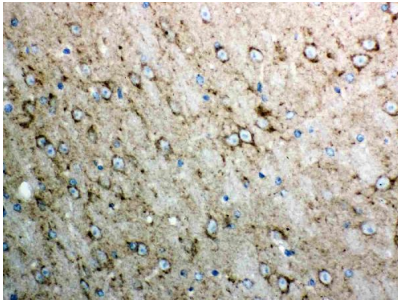


Trimetazidine inhibited EE-induced apoptosis of myocardial cells. (A) The apoptosis in myocardial tissues was evaluated by TUNEL staining. Scale bar is 50 um. Western blot analysis of the levels of apoptosis-related proteins B-cell lymphoma 2 (Bcl-2) (B) , Bcl-2-associated X protein (Bax) (C) , cleaved caspase-3 (D) , cleaved PARP (E) , and cytoplasmic cytochrome complex (Cytochrome c, Cyto-C) (F) in myocardial tissues. GAPDH was used as a loading control. Each value is shown as mean \pm SD (n = 6). * P < 0.05, ** P < 0.01, *** P < 0.001, versus the indicated group. Index in PubMed under a CC BY license. PMID: 30890937

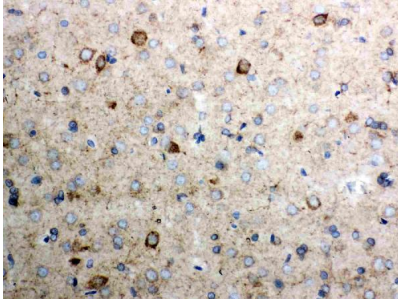


Levels of the cytochrome c protein in the cytosol (A) and mitochondria (B) of the MCF-7/ADR cells after a 24 h incubation with the different formulations (1: blank medium, 2: Pluronic L61 solution, 3: CUR solution, 4: the mixed Pluronic L61/CUR solution, 5: F-pHSM, 6: F-pHSM-L61, 7: F-pHSM/CUR and 8: F-pHSM-L61/CUR). * P

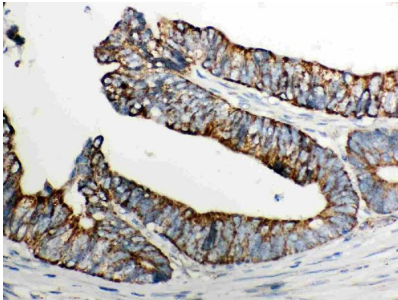
IHC analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334). Cytochrome C was detected in paraffin-embedded section of Mouse Brain Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Cytochrome C



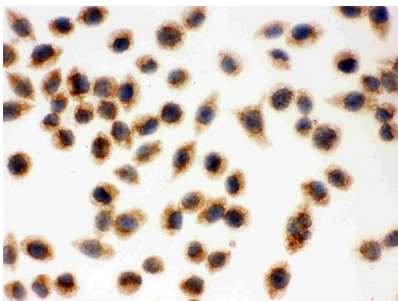
Antibody (PB9334) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334). Cytochrome C was detected in paraffin-embedded section of Rat Brain Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

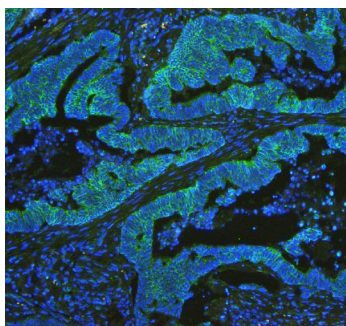


IHC analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334). Cytochrome C was detected in paraffin-embedded section of Human Intestinal Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

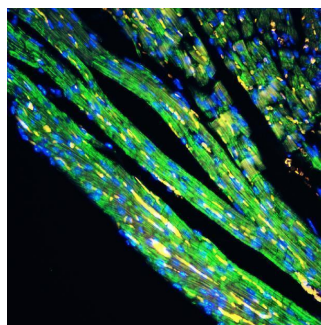


IHC analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334). Cytochrome C was detected in immunocytochemical section of SMMC-7721. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1ug/ml rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

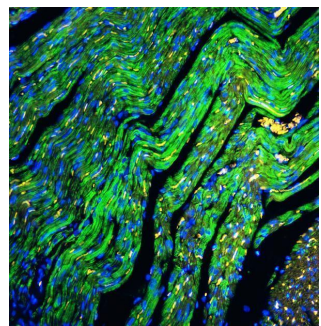
IF analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334) Cytochrome C was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue



section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334) Cytochrome C was detected in paraffin-embedded section of mouse cardiac muscle tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Cytochrome C using anti-Cytochrome C antibody (PB9334) Cytochrome C was detected in paraffin-embedded section of rat cardiac muscle tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/mL rabbit anti-Cytochrome C Antibody (PB9334) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

47 Publications Citing This Product

1. PubMed ID: 10.3389/fphar.2017.00545, Pioglitazone Improves Mitochondrial Function in the Remnant Kidney and Protects against Renal Fibrosis in 5/6 Nephrectomized Rats
2. PubMed ID: 10.3389/fphar.2017.00691, Protective Effects of Sodium (\pm)-5-Bromo-2-(α -Hydroxypentyl) Benzoate in a Rodent Model of Global Cerebral Ischemia
3. PubMed ID: 10.1371/journal.pone.0147858, N-Acetyl Cysteine Depletes Reactive Oxygen Species and Prevents Dental Monomer-Induced Intrinsic Mitochondrial Apoptosis In Vitro in Human Dental Pulp Cells

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